PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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INTERNAT	TIONAL PRELIMINAR	Y EXAMINA	ATION REPORT	
	(PCT Article 36 ar	nd Rul 70)	_	
Applicant's or agent's file reference PCTF176	FOR FURTHER ACTIO	N Preliminary	eation of Transmitte Examination Report (F	of International orm PCT/IPEA/416)
International application No. PCT/JP2003/016244	International filing date (day 18 December 2003 (1		Priority date (day/mode) 25 December 20	nth/year))02 (25.12.2002)
International Patent Classification (IPC) of C23C 14/34, 14/00, B01J 3/00	r national classification and IPC			
Applicant	ABE, Takayı	uki		
I. This international preliminary extend is transmitted to the applicant	amination report has been prepart according to Article 36.	red by this Intern	ational Proliminary Ex	amining Authority
2. This REPORT consists of a total		iding this cover s	heet.	
This report is also accomp	panied by ANNEXES, i.e., sheets for this report and/or sheets con the Administrative Instructions to	s of the description	on, claims and/or draw	ings which have been s Authority (see Rule
These annexes consist of a	a total ofsheets	3.		
3. This report contains indications r	relating to the following items:			
I Basis of the repo	irt			
II Priority				
III Non-establishme	ent of opinion with regard to nov	elty, inventive st	top and industrial applic	cability
IV Lack of unity of	Invention			
V Reasoned statem	nent under Article 35(2) with reg planations supporting such states	ard to novelty, in nent	nventive step or industr	ial applicability;
VI Certain documen	nts cited			
VII Certain defects in	in the international application			
	tions on the international applica	ition		
Date of submission of the demand	Da	te of completion	of this report	
18 December 2003 (1	.8.12.2003)	02	2 July 2004 (02.07.	2004)
Name and mailing address of the IPEA/	/JP Au	thorized officer		
Faceimtle No	Te	lephone No.		

Form PCT/IPEA/409 (cover sheet) (July 1998)



International application No.

PCT/JP2003/016244

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I. F	Basis :	of the re	port	
1.	With	regard to	the elements of the International application:*	
	\boxtimes		rnational application as originally filed	
		the desc	ription:	
	_	pages		, as originally filed
		pages	1	, filed with the demand
		pages	, filed with the letter of	
		the clair		
		pages		, as originally filed
		pages	, as amended (together with any	statement under Article 19
		pages		, filed with the demand
		pages	, filed with the letter of	
		the drav	wings:	
		pages		, as originally filed
		pages		, filed with the demand
		pages	, filed with the letter of	
ļ		the seque	ence listing part of the description.	
		pages		, as originally filed
		pages		, filed with the demand
		pages	, filed with the letter of	
2.	ن مماه	internation se elemen	to the language, all the elements marked above were available or furnished to this Author nal application was filed, unless otherwise indicated under this item. Its were available or furnished to this Authority in the following language are larguage of a translation furnished for the purposes of international search (under Rule 23.1)	which is:
1	-		aguage of a translation of the international application (under Rule 48.3(b)).	"
		the lar	nguage of the translation furnished for the purposes of international preliminary examina	ation (under Rule 55.2 and/
3.	Wit prel	th regard	to any nucleotide and/or amino acid sequence disclosed in the international apexamination was carried out on the basis of the sequence listing:	plication, the international
1		contai	ned in the international application in written form.	
		filed t	ogether with the international application in computer readable form.	
ł		4	hed subsequently to this Authority in written form.	
		furnis	hed subsequently to this Authority in computer readable form.	e de la compansión de la c
		Intern	statement that the subsequently furnished written sequence listing does not go bey ational application as filed has been furnished.	
			tatement that the information recorded in computer readable form is identical to the vernished.	vritten sequence listing has
4	. [The a	mendments have resulted in the cancellation of:	
			the description, pages	
		Ħ	the claims, Nos.	
			the drawings, sheets/fig	
5	. [This re	eport has been established as if (some of) the amendments had not been made, since they d the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	have been considered to go
1	in	this repo	t sheets which have been furnished to the receiving Office in response to an invitation und rt as "originally filed" and are not annexed to this report since they do not contai	(
	Any	y replace	ment sheet containing such amendments must be referred to under item 1 and annexed to th	ils report.

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v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

citations and explanations suppo			
itatement		4.45	YES
Novelty (N)	Claims	1-19	
	Claims		NO
Inventive step (IS)	Claims	1-19	YES
	Claims	X-A2	NO
	Claims		
Industrial applicability (IA)	Claims	1-19	YE
			NO
	Claims		

2. Citations and explanations

Document 1: JP, 2001-207261, A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.), 31 July 2001

Document 2: JP, 05-271920, A (NISSHIN STEEL CO., LTD.), 19 October 1993

Document 3: JP, 05-271921, A (NISSHIN STEEL CO., LTD.), 19 October 1993

Document 4: JP, 61-030663, A (DIRECTOR GENERAL, AGENCY OF INDUSTRIAL SCIENCE AND TECHNOLOGY), 12 February 1986

Document 5: JP, 2000-109969, A (DIRECTOR GENERAL OF NATIONAL RESEARCH INSTITUTE FOR SCIENCE AND TECHNOLOGY AGENCY), 18 April 2000

Document 6: Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 92407/1988 (Laid-open No. 14360/1990) (NISSHIN STEEL CO., LTD.), 29 January 1990

Document 7: JP, 56-041375, A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.), 18 April 1981

Claims 1-13

The subject matter of claims 1-13 is not disclosed in any of the documents cited in the ISR and is novel and involves an inventive step.

Document 1 pertains to deposited coating for a coated member, and describes making the crosssection shape of the barrel containing the coated member polygonal instead of round, thereby improving stirring efficiency and making it possible to obtain a uniform coating (see paragraph r00191).

Nevertheless, the invention described in document 1 does not contemplate fine powder as the base material, and it assumes the barrel is mesh-like with an opening in the wall.

Therefore employing the technique described in document 1 in the spattering device that performs spattering film formation on powder while rotating a barrel as described in documents 2 and 3 could not easily be conceived by a person skilled in the art.

Also, this application's invention achieves the distinctive effect of uniformly coating a thin film of superfine particles with a very small particle size by spattering on fine powder using a polygonal barrel.

Claims 14-19

The subject matter of claims 14-19 is not disclosed in any of the documents cited in the ISR and is novel and involves an inventive step. In particular, the point about "manufacturing a microcapsule by removing the coated superfine particles or fine particles that form the matrix for the thin-film" in the inventions of claims 14-19 are not disclosed in documents 1-7; moreover, that point could not easily be conceived by a person skilled in the art based on documents 1-7.

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VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The inventions relating to claims 14-19 are inventions of a microcapsule manufacturing method wherein, after a film is formed on a superfine particle surface, said particle is removed, and microcapsules are thus obtained. While there is some description in the specification regarding such microcapsule manufacturing method, in actuality, the specification does not describe specifically what kind of particles are used, what specific type of thin film is formed, and by what specific method the superfine particles are removed. Further, no objective data is presented showing obtainment of microcapsules. Therefore, the inventions of claims 14-19 are not sufficiently supported by the specification.

Form PCT/IPEA/409 (Box VIII) (July 1998)